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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/719,889	02/21/2001	Earl R. Owen	12724-002001	6045
7	590 05/20/2003			
	7590 05/20/2003 n & Richardson e 500  EXAMINER	INER		
Suite 500 4350 La Jolla Village Drive San Diago, CA, 02122			CHISM, BILLY D	
San Diego, CA	92122		ART UNIT	PAPER NUMBER
			1654	

DATE MAILED: 05/20/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application N	o. Applicant(s)			
		09/719,889	OWEN ET AL.			
	Office Action Summary	Examiner	Art Unit			
		B. Dell Chism	1654			
Period for	The MAILING DATE of this communication appears Reply	ears on the cov	er sheet with the correspondence address			
- Extensi after SI - If the po - If NO p - Failure - Any rep	RTENED STATUTORY PERIOD FOR REPLY AILING DATE OF THIS COMMUNICATION. ions of time may be available under the provisions of 37 CFR 1.13 IX (6) MONTHS from the mailing date of this communication. eriod for reply specified above is less than thirty (30) days, a reply eriod for reply is specified above, the maximum statutory period with to reply within the set or extended period for reply will, by statute, by received by the Office later than three months after the mailing patent term adjustment. See 37 CFR 1.704(b).	6(a). In no event, howithin the statutory mill apply and will expire cause the application	wever, may a reply be timely filed  ninimum of thirty (30) days will be considered timely.  The SIX (6) MONTHS from the mailing date of this communication.			
1) 🖾	Responsive to communication(s) filed on 04 M	larch 2003 .				
2a) <u></u> □	This action is <b>FINA</b> L. 2b)⊠ This	s action is non-	final.			
,	Since this application is in condition for allowar closed in accordance with the practice under <i>E</i> n of Claims	nce except for t Ex parte Quayle	formal matters, prosecution as to the merits is e, 1935 C.D. 11, 453 O.G. 213.			
4)⊠ C	laim(s) <u>1-16,19-22 and 24-42</u> is/are pending i	n the application	on.			
48	a) Of the above claim(s) is/are withdraw	n from conside	ration.			
5)∏ C	laim(s) is/are allowed.					
6)⊠ C	Claim(s) <u>1-16,19-22 and 24-42</u> is/are rejected.					
7)⊠ C	laim(s) <u>5 and 41</u> is/are objected to.					
	laim(s) are subject to restriction and/or	election require	ement.			
Application	n Papers					
	e specification is objected to by the Examiner.					
	e drawing(s) filed on is/are: a)∏ accepte					
	Applicant may not request that any objection to the					
	e proposed drawing correction filed on i					
	f approved, corrected drawings are required in reply		ction.			
	e oath or declaration is objected to by the Exar	miner.				
	der 35 U.S.C. §§ 119 and 120					
	cknowledgment is made of a claim for foreign p	oriority under 3	5 U.S.C. § 119(a)-(d) or (f).			
	All b)☐ Some * c)☐ None of:					
1.	Certified copies of the priority documents I					
	2. Certified copies of the priority documents have been received in Application No					
	Copies of the certified copies of the priority application from the International Bure the attached detailed Office action for a list of	au (PCT Rule 1	17 2(a))			
			5 U.S.C. § 119(e) (to a provisional application).			
a) 🗌	The translation of the foreign language provision nowledgment is made of a claim for domestic	sional applicati	on has been received			
tachment(s)		, undor o	33 120 and/01 121.			
☐ Notice of	References Cited (PTO-892) Draftsperson's Patent Drawing Review (PTO-948) on Disclosure Statement(s) (PTO-1449) Paper No(s)	4) 5) 6)	Interview Summary (PTO-413) Paper No(s)  Notice of Informal Patent Application (PTO-152)  Other:			
Patent and Tradem 0-326 (Rev. 04	4.04)	n Summary	Part of Paper No. 10			

Art Unit: 1654

#### **DETAILED ACTION**

This Office Action is in response to Paper No. 9, filed 04 March 2003. Claims 1-16, 19-22 and 24-42 are pending and under consideration. Applicants canceled claims 17-18 and 23.

1. Claims 5 and 41 objected to because of the following informalities: claim 5 misspelled "fluorescent isothiocyante" wherein both words are misspelled and should be amended to read "fluorescein isothiocyanate"; claim 41 misspelled "fibrogen" wherein the word is misspelled and should be amended to read "fibrinogen." Appropriate correction is required.

## Claim Rejections - 35 USC § 112

- The following is a quotation of the second paragraph of 35 U.S.C. 112:
   The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter that the applicant regards as his invention.
- 2. Claims 1-16, 19-22 and 24-42 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention.
- 3. Claim 1 is rejected for the indefinite recitation of the phrase "having a predetermined shape." This phrase could mean that it is not yet shaped, but the future shape has been decided and will be physically applied at another time.
- 4. Claims 1 and 11-12 are indefinite for the recitation of "at least partially denatured", wherein it is not clear what amount of denaturing meets the requirement for the limitation, i.e., what if the inner middle of the composition was denatured yet no surface area was denatured, then the denatured aspect of the solder would be irrelevant? An example of a working product claim for the instant invention is, "A previously shaped biomolecular solder comprising a pre-

Application/Control Number: 09/719,889 Page 3

Art Unit: 1654

denatured proteinaceous substance." Although this example does not recite the other aspects of the instant claim 1. Applicants should realize that the portions not in the above recited example, would be best served in a method of making claim set, not in a product claim as they have no real influence on the invention of claim 1 which is a final product.

- 5. Claims 2, 31 and 39 are rejected under 35 U.S.C. 112, second paragraph, as being indefinite for failing to particularly point out and distinctly claim the subject matter which applicant regards as the invention. Claims 2, 31 and 39 do not further limit the invention of claim 1. It is clear from reading claim 1 that the solder comprises a proteinaceous substance that inherently means it contains a protein base of some length and or mixture. Claims 2, 31 and 39 are rejected for the indefinite recitation of the phrase "or an analogue thereof." A protein analogue does not necessarily have to be a protein and since the solder requires a proteinaceous substance, there cannot be just an analogue thereof. Furthermore, it is unclear as what the metes and bounds of the limitation are regarding the analogues thereof.
- 6. Claims 3-10, 13-16, 19-22, 24-30, 32-38 and 40-42 are rejected for depending from rejected claims.

## Claim Rejections - 35 USC § 102

7. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

Art Unit: 1654

8. Claims 1-7, 10-16, 19, 27-29, 31-34 and 39-42 rejected under 35 U.S.C. 102(e) as being anticipated by Lauto *et al.* 2001 (US 6,323,037 B1).

Lauto *et al.* discloses a biomolecular solder comprising a proteinaceous substance that is hydrated and partially denatured for malleability for better performance of the solder for later application and with adjuvants and growth factors (column 2 line 18 through column 5 line 19). Lauto *et al.* also discloses methods of preparing with use of solvents, dyes and thermal energy sources, and then the application to tissue in need of repair (see Examples 1-2 column 5 line 44 through column 8 line 11).

### Conclusions

No claims are allowed. Due to new grounds for rejection, this action is NON-FINAL.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to B. Dell Chism whose telephone number is 703-306-5815. The examiner can normally be reached on 7:30 AM - 4:30 PM, Monday through Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Brenda Brumback can be reached on 703-306-3220. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-4242 for regular communications and 703-308-4242 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-1235.

B. Dell Chism

19 May 2003

BRENDA BRUMBACK
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 1600